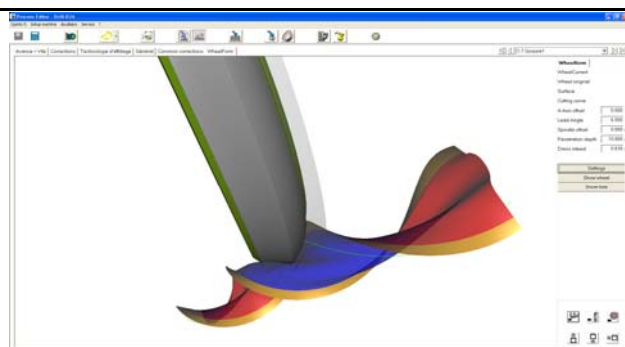


HSS Drill Ø26 Z2

A05-054

Flutegrinding of large HSS drills can be done with dressable vitrified wheels, as long as the power the spindle and coolant pressure is strong enough. As the drill is submitted to high grinding pressure a strong steady rest is necessary. Wheelform design for the flutewheel is intergrated in Quinto, the wheelform is calculated based the given DXF of the fluteform.



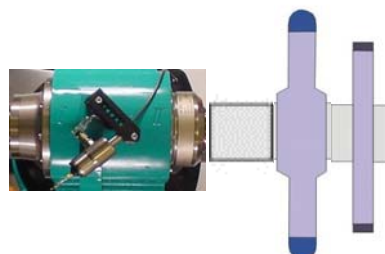
1. Cycletime for Production

Workpiece: Ø 26 mm, Z 2, Length 250 mm, Helix angle 32°, 18 passes of 0.5 mm for the flute Material HSS							
Operations							
Feed [mm/Min]	2000	1000	100	150	60	80	100
Power [kW]		16	2	10	5	3	1
Cutting feed [m/s]		42	32	32	32	32	32
Used wheels							
Grinding time [s]	8	896	33	252	44	35	69
Total cycle time	22 Min 17						

The cycle times are indicative. Material to be ground, grinding wheels, coolants can influence the cycle times considerably.

2. Used Grinding Wheels

1	DXF Ø200 C80
2	1A1 Ø125 B126



1 2

3. Machine and Software Requirements

Machines: GEMINI DMR 26 kW
 Control: Fanuc 31i
 Accessories: Steady Rest, Dressing
 Responsible engineer: OP. 14.4.11

Coolant: Synthetic Oil, pressure 16 bar
 Software: Quinto 5

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